



MARANDA HIGH SCHOOL

Kenya Certificate of Secondary Education
MOCK EXAMINATIONS 2022

CODE:231/3

SUBJECT: BIOLOGY

Paper 3

AUG/SEPT

2022

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1³/₄Hours

MARKING SCHEME

1(a)(i) –edges of the carpels fuse together to form a central placenta;

--ovary wall divides into multiple loculi/chambers;

(ii)

Food substance	procedure	observation	conclusion
Starch;	-To a little amount of juice K in a test tube add two drops of iodine solution;	-Brown color of iodine solution remains/persist;	Starch absent;
Vitamin C;	-To a little amount of DCPIP in a test tube, add juice K drop wise as you shake;	-DCPIP decolorizes;	Vitamin C present;

(iii) –scurvy;

(iv)-bleeding gums;

-poor healing of wounds

-anaemia

-swelling of skin

-reduced resistance to infections

(b)(i)-liquid C forms a solid particles /liquid C curdles;

(ii) body part-stomach

Enzyme-rennin

rej.renin

(iii) gastric gland

2.(a)(i)-broken down into small droplets;

(ii)-emulsification;

(iii)-duodenum;

(iv)-oxidized to release energy; -shock absorbers on vital organs

-storage form of food; -source of metabolic water

(v)-arteriosclerosis; -thrombosis;

(b) (i) Y-aquatic/fresh water

Z- terrestrial

(ii) R-minimizes rate of water loss / defense against browsers;

S-store air for buoyancy;

3.(a) (i)-nitrogen

(ii)-thigmo tropism /haptonasty;

(iii)-when the sensitive hairs on the leaves are touched (by the landing insect);the midrib loses turgidity rapidly; this makes the trap to spring inwards; hence closing the leaf; with the spines interlocking.

(b)(i)-axis;

(ii)-cervical/neck;

(iii)-odontoid process;

(iv)-articulate with the atlas vertebra to permits nodding of the head;

(c)- tendon-attaches bone to muscles

- ligament- attaches bone to bone

(d)-atlas vertebra